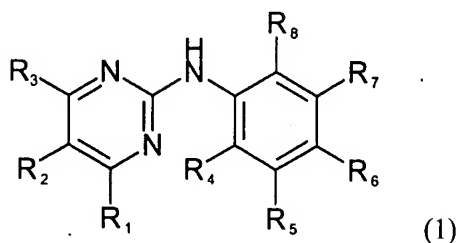


CLAIMS

1. N-phenyl-2-pyrimidine-amine derivative represented by the following formula (1):

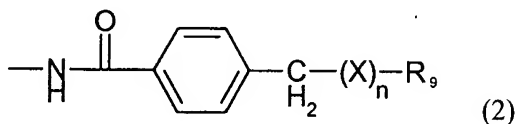


and its salt, in which

R₁ represents 3-pyridyl or 4-pyridyl,

R₂ and R₃ each represent hydrogen or lower alkyl,

R₆ or R₇ represents a radical having the following formula (2):



wherein X represents oxygen or NH, n=0 or 1, and R₉ represents aliphatic having 5 to 10 carbon atoms, or represents 5 to 7 membered saturated or unsaturated monocyclic radical, or bi- or tri-cyclic radical optionally combined with benzene ring, each of which has 1 to 3 hetero atoms selected from a group consisting of nitrogen, oxygen and sulfur, or represents piperazinyl or homopiperazinyl each of which is substituted by lower alkyl, and

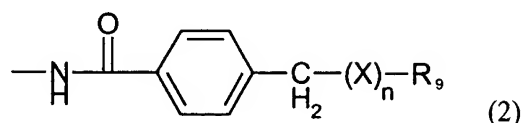
R₄, R₅, R₇, and R₈ each represent hydrogen, or one or two thereof each represent halogen, lower alkyl, or lower alkoxy when R₆ represents the radical of the above formula (2), or one or two of R₄, R₅, R₆, and R₈ each represent halogen, lower alkyl, or lower alkoxy when R₇ represents the radical of the above formula (2), provided that R₆ or R₇ represents a radical of formula (2) wherein n=0 and R₉ is 4-methylpiperazine, then one or more of R₄, R₅, R₇, and R₈, or one or more of R₄, R₅, R₆, and R₈ are halogen.

2. The compound of claim 1 wherein

R_1 represents 3-pyridyl,

R_2 and R_3 each represent hydrogen,

5 R_6 or R_7 represents a radical having the following formula (2):



wherein X represents NH, $n=0$ or 1, and R_9 represents piperidine, 4-methylhomopiperazine, or 4-methylpiperazine, and

10 R_4 , R_5 , R_7 , and R_8 each represent hydrogen, or one or two thereof each represent fluoro, methyl, or methoxy when R_6 represents the radical of the above formula (2), or one or two of R_4 , R_5 , R_6 , and R_8 each represent fluoro, methyl, or methoxy when R_7 represents the radical of the above formula (2).

3. The compound of claim 1 wherein R_1 represents 3-pyridyl, R_2 , R_3 , R_4 , R_5 , R_7 , and

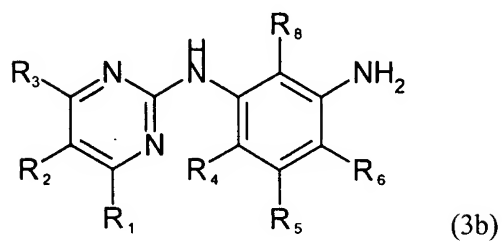
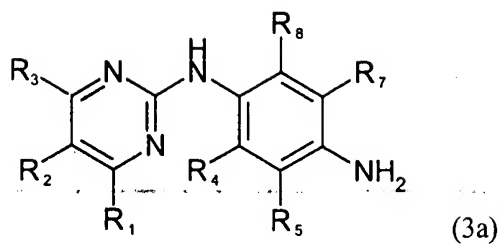
15 R_8 each represent hydrogen, and R_6 represents the radical of formula (2) wherein $n=0$ and R_9 represents 4-methylhomopiperazine, or $n=1$, X represents NH, and R_9 represents 4-methylpiperazine.

4. The compound of claim 1 wherein R_1 represents 3-pyridyl, R_2 and R_3 each

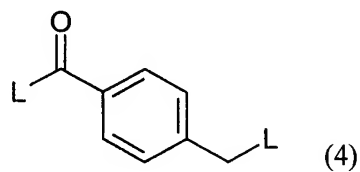
20 represent hydrogen, R_4 represents methyl, R_5 , R_6 and R_8 each represent hydrogen, and R_7 represents the radical of formula (2) wherein $n=1$, X represents NH, and R_9 represents 4-methylpiperazine.

5. A process for preparing the compound of formula (1) as defined in claim 1, which

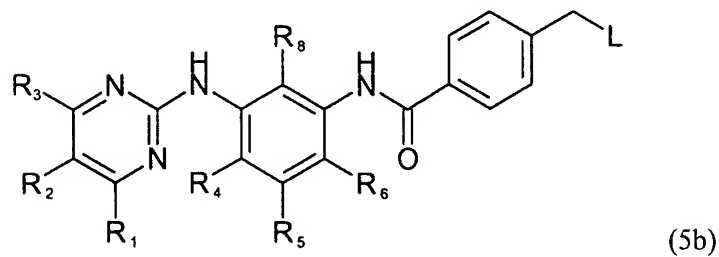
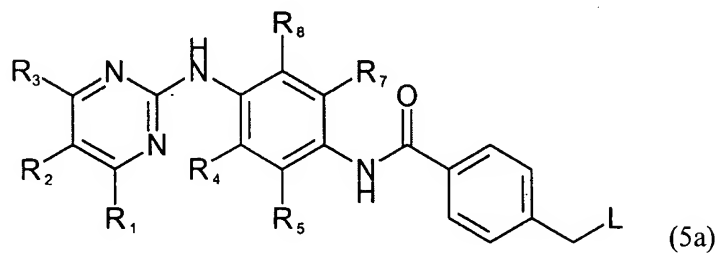
25 comprises reacting a compound represented by the following formula (3a) or (3b):



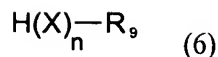
wherein R_1 to R_8 are as defined in claim 1, with a compound represented by the following formula (4):



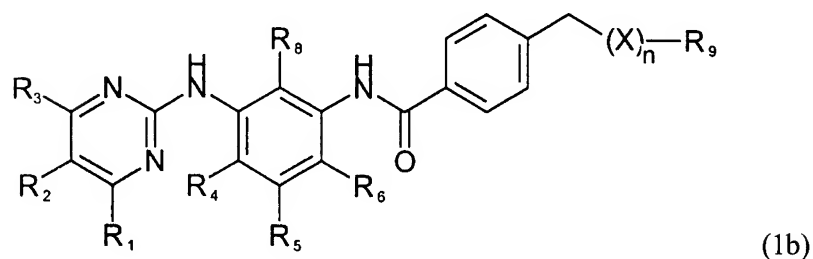
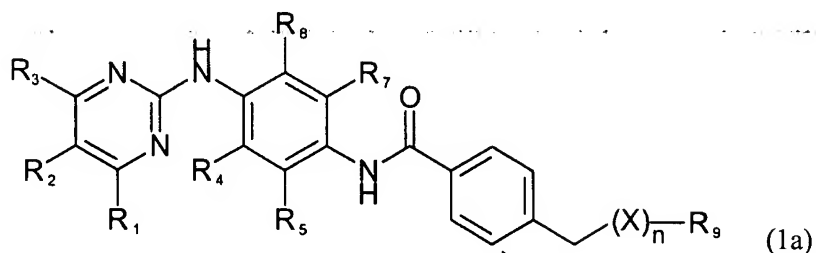
wherein L represents a leaving group, to produce a compound represented by the following formula (5a) or (5b):



wherein R_1 to R_8 and L are as defined above, and reacting the compound of formula (5a) or (5b) with a compound represented by the following formula (6):



wherein X, n, and R₉ are as defined in claim 1, to give a compound represented by the following formula (1a) or (1b):



wherein R₁ to R₈, X, n, and R₉ are as defined above.

6. A pharmaceutical composition for the treatment of lung cancer, gastric cancer, colon cancer, pancreatic cancer, hepatoma, prostatic cancer, breast cancer, chronic or acute leukemia, hematologic malignancy, encephalophyma, bladder cancer, rectal cancer, or cervical cancer, which comprises an effective amount of the compound of formula (1) or its salt as defined in claim 1 as an active ingredient together with pharmaceutically acceptable inert carriers.
7. The composition of claim 6 which is used as an oral preparation.
8. The composition of claim 6 which is used as an injection.
9. A method of treating lung cancer, gastric cancer, colon cancer, pancreatic cancer, hepatoma, prostatic cancer, breast cancer, chronic or acute leukemia, hematologic malignancy, encephalophyma, bladder cancer, rectal cancer, or cervical cancer,

which comprises having a host in need of such treatment ingest an amount of the compound of formula (1) or its salt as defined in claim 1 effective to provide such treatment.